

Title (en)

METHOD AND APPARATUS FOR GENERATION AND USAGE OF EXTENDED GOLAY CODES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR GENERIERUNG UND NUTZUNG VON ERWEITERTEN GOLAY CODES

Title (fr)

PROCÉDÉ ET APPAREIL POUR LA GÉNÉRATION ET L'UTILISATION DE CODES DE GOLAY ÉTENDUS

Publication

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Application

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Priority

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Abstract (en)

[origin: US2009097533A1] A wireless device comprises a code-assignment module configured for assigning Golay codes to be used for spreading, a spreading module configured for spreading data with the Golay codes to produce a signal, wherein the Golay codes are randomly used to spread the data, and a transmitter configured for transmitting the signal. The wireless device may transmit a first beacon signal via a set of quasi-omni beam patterns, and a second beacon signal via a set directional beam patterns. The first beacon signal has a first transmission rate that is higher than the second beacon signal's the transmission rate. Extended Golay codes having zero periodic cross-correlation may be generated from a Golay code and a set of short sequences. A data block transmitted by the wireless device may comprise Golay codes and data portions, wherein every data portion is between two Golay codes and every Golay code is between two data portions.

IPC 8 full level

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